

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent application of : Attorney Docket No.:  
Barry E. Barsky : 7782-11CI 1  
Serial No.: Not yet assigned : Group Art Unit:  
Filed: Herewith : Not yet assigned  
For: ELECTROLYTIC TILT SENSOR : Examiner:  
HAVING A MENISCUS INHIBITOR : Not yet assigned

JC962 U.S. PTO  
09/740097  
12/19/00

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.56 and in accordance with 37 C.F.R. §§ 1.97-1.98, the Applicants attache hereto a completed PTO Form 1449 (modified). The above-identified application is a continuation-in-part application of parent application Serial No. 09/544,533 filed April 6, 2000. Pursuant to 37 C.F.R. 1.98(d), copies of references identified herein which were previously cited or submitted in the identified parent application are not being resubmitted. This Information Disclosure Statement is being submitted concurrently with the filing of the above-referenced application. Therefore, no certification, petition or fee is required.

CERTIFICATE OF MAILING  
UNDER 37 C.F.R. 1.10

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Date of Deposit: 19 Dec 2000

I hereby certify that this correspondence, along with any paper referred to as being attached or enclosed, and/or fee, is being deposited with the United States Postal Service, "EXPRESS MAIL - POST OFFICE TO ADDRESSEE" service under 37 C.F.R. 1.10, on the date indicated above, and addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

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However, if a fee is due, please charge, or credit any overcharge to, Deposit Account No. 19-1135.

The following references are noted as being potentially relevant to the subject matter of the present application.

German reference 40 25 184 A1 to Geisel shows an acceleration and/or inclination sensor. The sensor has an envelope comprising a metal housing which forms a cathode. The housing has a cylindrical sidewall and an integrally-formed flat top. A gasketed disk made of a dielectric material closes the bottom of the housing. The housing and the disk define a chamber, which is partially filled with an electrolytic solution. Two sensing electrodes extend from outside the sensor, through the disk and into the chamber. The cathode is a common electrode. An electrical lead for the cathode is a pin attached to the underside of the sensor. Alternatively, the cathode lead is a tab attached to the top of the housing.

U.S. Pat. No. 3,290,786 to Parkin shows an electrolytic attitude sensing apparatus having four sensing electrodes and one common electrode. The sensing electrodes are arranged in a rhombic pattern that is concentrically located within a sealed, cylindrical housing. The common electrode is spaced equidistant from each of the sensing electrodes. Each electrode is mechanically coupled to the housing.

U.S. Pat. No. 5,428,902 to Cheah shows an inclinometer sensing circuit. The circuit includes a biaxial electrolytic inclinometer having five pin electrodes. Four of the electrodes are arranged in a square pattern. The fifth electrode (the common electrode) is located at the center of the square pattern.

U.S. Pat. No. 5,612,679 to Burgess shows an electrolytic tilt sensor. The tilt sensor comprises a glass cell, four sensing electrodes and one common electrode. The glass cell is generally cylindrical in shape and defines a chamber. The sensing electrodes are concentrically located within the glass cell in a square pattern. The common electrode is

located at the center of the square pattern. The electrodes are of the pin type and pass from outside the sensor, through the glass cell and into the chamber.

U.S. Pat. No. 5,630,280 to Crossan, Jr. shows a dual axis electrolytic tilt sensor. The sensor has a sphere-shaped metal enclosure that is a common electrode. Four sensing electrodes are disposed within the enclosure. The sensing electrodes pass through a glass insulating structure and terminate outside the enclosure as pins. The glass insulating structure supports the electrodes and seals the enclosure.

U.S. Pat. No. 4,497,118 to Byrum shows a motion and orientation sensor. The sensor comprises a chamber that is partially defined by a metal wall. An electrical lead passes from outside the chamber, through the metal wall and into the chamber. The electrical lead and the metal wall are opposite polarities. A gasket located between the metal wall and the lead electrically insulates the lead from the wall and seals the chamber.

The following references are deemed to be of a secondary interest or at best cumulative to the patents noted above.

#### U.S. Patents

1,634,934	4,496,836	5,170,567
2,852,646	4,517,750	5,174,033
3,171,213	4,583,296	5,180,986
3,487,303	4,641,434	5,279,040
3,843,539	4,846,954	5,581,034
3,906,471	4,937,518	5,731,761
3,937,078	4,972,595	5,852,878
3,992,951	5,031,329	
4,344,235	5,079,847	
4,365,421	5,159,761	

#### Foreign References

British	733,973
European	0 117 226 A2
European	0 358 788 A1
French	2 647 544
German	36 08 274 C2

It is requested that the Examiner review the above-identified references and make them of record in the instant application as required by M.P.E.P. § 609. It is also requested that the Examiner initial the enclosed duplicate substitute form 1449 and return one copy to the Applicant's undersigned representative.

The references listed in this Information Disclosure Statement comprise the most pertinent prior art known to Applicant and his attorneys as of the date hereof. This Information Disclosure Statement should not be construed as a representation that the cited references are material or that no better art exists.

Respectfully submitted,

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SUBSTITUTE FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
		7782-11 C11	Not Yet Assigned
		INFORMATION DISCLOSURE CITATION	
		APPLICANT: Barry E. Barsky	
		FILING DATE Herewith	GROUP Not Yet Assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	BA	4,496,836	01/85	Mikesell	250	231	
	BB	4,497,118	02/85	Byrum	33	366	
	BC	4,517,750	05/85	Netzer	33	396	
	BD	4,583,296	04/86	Dell'Acqua	33	366	
	BE	4,641,434	02/87	Engler	33	366	
	BF	4,846,954	07/89	Ryan <i>et al.</i>	33	366	
	BG	4,937,518	06/90	Donati <i>et al.</i>	324	716	
	BH	4,972,595	11/90	Shimmura <i>et al.</i>	33	366	
	BI	5,031,329	07/91	Smallidge	33	366	
	BJ	5,079,847	01/92	Swartz <i>et al.</i>	33	366	
	BK	5,159,761	11/92	Cagan <i>et al.</i>	33	366	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
	BL	40 25 184 A1	02/92	Germany				X
	BM							
	BN							
	BO							
	BP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	BR	
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	CB	5,174,033	12/92	Rider	333	366	
	CC	5,180,986	01/93	Swartz et al.	324	660	
	CD	5,279,040	01/94	Kippelt et al.	33	366	
	CE	5,428,902	07/95	Cheah	33	366	
	CF	5,581,034	12/96	Dao et al.	73	514.09	
	CG	5,612,679	03/97	Burgess	340	689	
	CH	5,630,280	05/97	Crossan, Jr.	33	366	
	CI	5,731,761	03/98	Sychra	340	689	
	CJ	5,852,878	12/98	Seipp, Jr., et al.	33	366	
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	AB	2,852,646	09/58	Broadley, Jr.	201	57	
	AC	3,171,213	03/65	Swarts et al.	36	206	
	AD	3,290,786	12/66	Parkin	33	206	
	AE	3,487,303	12/69	Remington	324	65	
	AF	3,843,539	10/74	Willing et al.	252	62.2	
	AG	3,906,471	09/75	Shawhan	340	200	
	AH	3,937,078	02/76	Williams	73	189	
	AI	3,992,951	11/76	Erspamer et al.	73	497	
	AJ	4,344,235	08/82	Flanders	33	366	
	AK	4,365,421	12/82	Byrum	33	366	

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	AL	733,973	07/55	United Kingdom				
	AM	0 117 226 A2	08/84	European				
	AN	0 358 788 A1	03/90	European				
	AO	2 647 544	11/90	France				X
	AP	3608274 C2	6/88	Germany				X

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	AS	

SUBSTITUTE FORM PTO-1449  <b>INFORMATION DISCLOSURE CITATION</b>	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. <b>7782-11 CI1</b>	SERIAL NO. <b>Not Yet Assigned</b>
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